

Bc28.2	MKGFFGIILSIIFVRAVSCTEDENRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS	
Bc28.1	MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS	60

	↑ · · · · · · · · · · · · · · · · · · ·	
Bc28.2	KWNTEEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120
Bc28.1	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120

	• •	
	·	
Bc28.2	LYVLPNTHRELSSLKNKIDEWKKVKASDNGTNVIKNIKDDRTNTWFVAHGFKVAELNDVT	180
Bc28.1	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	180
	**** *****************	
Bc28.2	LEKLATVVKKLVSHKDMKYINKVMKKYFDROKKE-AERLTKKAEKGMSGGKYKVKGYA	227
	7	
Bc28.1	LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKD GFSFA	240
	********* ** ** ** ** ** ** ** ** ** **	
	A	
Bc28.2	APSTWML 244	
Bc28.1	GLSVISLLVAAVAVVV 256	
	. *. *	

A8 BcB 34.01 BcA Robin Castres	MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDTVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS ************************************	60 60 60 60 60
A8	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120
ВсВ	KWNTDEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	
34.01	KWNTNEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	
BcA	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120
Robin	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	
Castres	KWNTDEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120

A8	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	
BcB	LYVLSITHRELSSLKNKIDEWKKVKASDNGTNVIQNIKDDRTNTWFVAHGFKVAELNDVT	180
34.01	~	180
BcA	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	
Robin	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	
Castres	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	
	********************	***
· A8	I PVI AMUUNDI UCUVDMIVINDAMVONUDVUMVEECEDI AMNA DOCI COAVOVVDGEGERA	240
BcB	LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKD GFSFA LEKLATVVNELVSHNDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKD GFSFA	
34.01	LEKVATVVNELVSHNDMIYINDAMKONVDKWNKE-SERLAMMAEOGISGAKGKKDGFSFA	
BCA	LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEOGISGAKGKKDGFSFA	
Robin	LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGFSFA	
Castres	LEKLATVVNELVSHNDMIYINDAMKQNVDKWNKE-SERLAMMAEQGISGAKGKKDGFSFA	
000000	***:**********************************	237
	• • • • • • • • • • • • • • • • • • • •	
A8	GLSVISLLVAAVAVVV 256	
BcB	GLSVISLLVAAVAVVL 256	
34.01	GLSVISLLVAAVAVVL 255	
BcA	GLSVISLLVAAVAVVV 256	
Robin	GLSVISLLVAAVAVVV 256	
Castres	GLSVISLLVAAVAVVL 255	

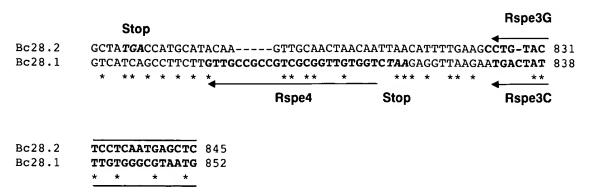
	5'UTR	
D=20 2	Met	
Bc28.2 Bc28.1	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTCACAATGAAGGGTTT	60
BC20.1	AGTCGATACCTCCGAGAATAG TCTTGTATTAATCCTGTCGCTATTCACA ATG AAGGGTTT *******************************	60
		·
	Fspe3	
Bc28.2	CTTCGGAATTATTTTGTCTATTATTTTCGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120
Bc28.1	CTTCGGAATTATTTTGTCCATTATTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120

Bc28.2	CAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
Bc28.1	AAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	
2020.1	**************************************	100
Bc28.2	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAAATGGAATAC	240
Bc28.1		240

Bc28.2	CGAAGAGCAGGTGAAGGAGCTGTTAAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300
Bc28.1	CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300
	*** *** ********* ****************	
Bc28.2	TGCCATTGCTAAGGAGTTCCACAAATTGAAGTCCGTTCTGTGCACCGGTGTCAACGAAAC	360
Bc28.1	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC ******************************	360
Bc28.2	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTTTACGTGCT	420
Bc28.1	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTCTACGTGCT	420

	pr 3	
Bc28.2		480
Bc28.1	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	
	* *** ***********************	
D-20 2		540
Bc28.2 Bc28.1	CAAGGCATCTGACAATGGCACCAATGTGATCAAAAATATCAAGGACGACAGGACTAACAC CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC	
DC20.1	******** ****** ****** ****** ********	240
	Cons3.1	
Bc28.2	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGÁGCTCAACGATGTAACCCTTGAGAAACT	600
Bc28.1	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT	600
Bc28.2	TGCAACAGTGGTTAAAAAATTGGTGTCCCACAAAGATATGAAATACATTAACAAAGTTAT	660
Bc28.1	TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT	660
	********** ************* ****** * * * *	
Da20 2	GAAAAAATATTTTGACAGGCAGAAAAAGGAGGCTGAAAGATTGACCAAAAAGGCCGA	717
Bc28.2 Bc28.1	GAAAAAATATTTTGACAGGCAGAAAAAGGAGGCTGAAAGATTGACCAAAAAGGCCGA GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA	
2020.1	** ** * *** * ** ** ** ***** ****** *** ** ** **	, 0
Bc28.2	GAAGGGTATGTCTGGAGGTAAGTATAAGGTGAAAGGTTATGCAGCCCCCTCTACTTGGAT	
Bc28.1	ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGT-CTTAG-T	778

Figure 3 Cont'd.



	EULTD Block	
A8	5'UTR Met	.
BCB	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTCACAATGAAGGGTTT AGTCGATACCTCCGAGAATAGTCTTATATTAATCTTGCCGCTATTCACAATGAAGGGTTT	60 60
34.01	AGTCGATACCTCCGAGAATAGTCTTATATTAATCTTGCCGCTATTCACA ATG AAGGGTTT	60
Castres	AGTCGATACCTCCGAGAATAGTCTTATATTAATCTTGCCGCTATTCACA TG AAGGGTTT	60
Robin	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTCACA ATG AAGGGTTT	60
BcA	${\tt AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTCACA \textbf{ATG} \texttt{AAGGGTTT}}$	60

	Fspe3	
A8	CTTCGGAATTATTTTGTCCATTATTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	120
BcB	$\tt CTTCGGAATTATTTTGTCCATTATTTTTTTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA$	120
34.01	$\tt CTTCGGAATTATTTTGTCCATTATTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA$	120
Castres	CTTCGGAATTATTTTGTCCATTATTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	
Robin	CTTCGGAATTATTTTGTCCATTATTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA	
BcA	CTTCGGAATTATTTTGTCCATTATTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAGAA ***************************	120
A8	AAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
BcB	${\tt AAGGGATAGTGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA}$	180
34.01	AAGGGATACTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	
Castres	AAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	
Robin BcA	AAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA AAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATCGA	
BCA	******* ******************************	180
A8		240
BcB		240
34.01		240
Castres Robin		240 240
BcA		240
	*************	2.0
A8	CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300
BcB	CGACGAGGAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300
34.01		300
Castres	${\tt CGACGAGCAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT}$	300
Robin	$\tt CGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCT$	300
BCA		300
	* **** ******* ************************	
A8	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360
ВсВ	$\tt TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC$	360
34.01	TGCCATTGCTAAGGAGTTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
Castres	TGCCATTGCTAAGGAGTTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
Robin BcA	TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
BCA	**************************************	360
A8	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTCTACGTGCT	
BcB	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTTTACGTGCT	
34.01 Castres	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTTTACGTGCT TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGATGCCATCTCCATGCTTTACGTGCT	
Robin	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGATGCCATCTCCATGCTTTACGTGCT TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTCTACGTGCT	
BcA	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTCTACGTGCT	
	************************************	_ •

Figure 4 Cont'd.

A8 BCB 34.01 Castres Robin BcA	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT **********************	480 480 480 480 480 480
A8 BcB 34.01 Castres Robin BcA	CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC CAAGGCATCTGACAATGGCACCAATGTGATCCAAAATATCAAGGACGACAGGACTAACAC CAAGGCATCTGACAATGGCACCAATGTGATCCAAAATATCAAGGACGACAGGACTAACAC CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC *******************************	540 540 540 540 540 540
	Cons3.1	
A8 BcB 34.01 Castres Robin BcA	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAAACT CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAAAGT CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAAACT CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT **********************************	600 600 600 600 600
A8 BCB 34.01 Castres Robin BCA	TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT TGCAACAGTGGTTAACGAATTGGTGTCCCACAATGATATGATCTACATTAACGACGCTAT TGCAACAGTGGTTAACGAATTGGTGTCCCACAATGATATGATCTACATTAACGACGCTAT TGCAACAGTGGTTAACGAATTGGTGTCCCACAATGATATGATCTACATTAACGACGCTAT TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT ***********************************	660 660 660 660 660
A8 BcB 34.01 Castres Robin BcA	GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA GAAGCAAAACGTTGATAAATGGAACAAGGAGTCTGAAAGATTGGCCATGATGGCTGA GAAGCAAAACGTTGATAAATGGAACAAGGAGTCTGAAAGATTGGCCATGATGGCTGA GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA ************************************	720 720 717 717 720 720
A8 BcB 34.01 Castres Robin BcA	${\tt ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT}$	780 780 777 777 780 780
	Rspe4 Stop Rspe3C	
A8 BcB 34.01 Castres Robin BcA	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGCTCTAAGAGGTTAAGGATGACTATTT CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGCTCTAAGAGGTTAAGGATGACTATTT CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGCTCTAAGAGGTTAAGGATGACTATTT CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT	840 840 837 837 840 840

Figure 4 Cont'd.

Rspe3C

A8	GTGGGCGTAATG	852
BcB	GTGGGCGTAATG	852
34.01	GTGGGCGTAATG	849
Castres	GTGGGCGTAATG	849
Robin	GTGGGCGTAATG	852
BcA	GTGGGCGTAATG	852

Figure 5

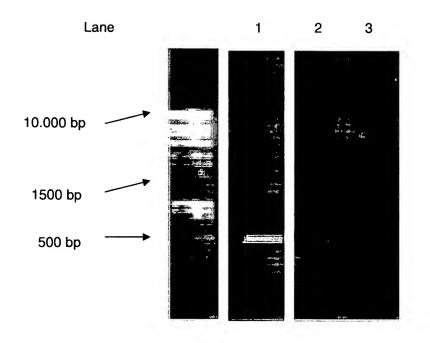
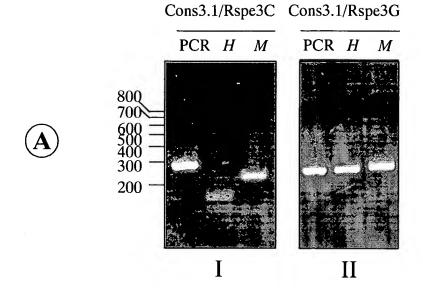
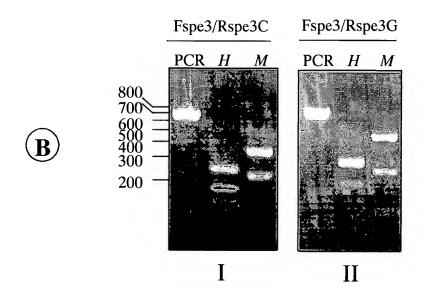


Figure 6





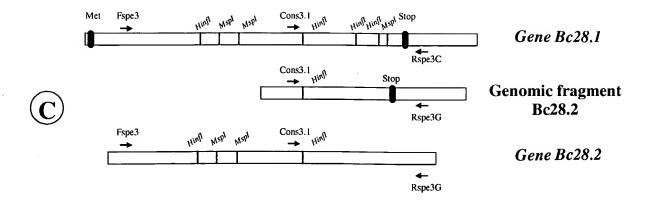
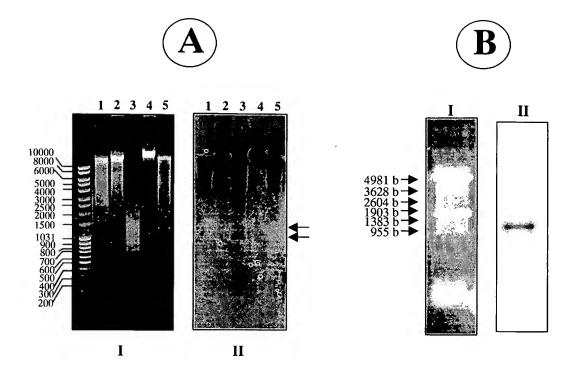


Figure 7



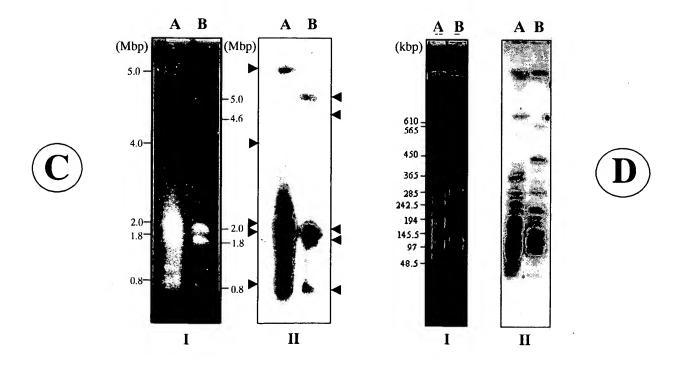
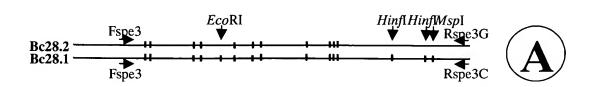
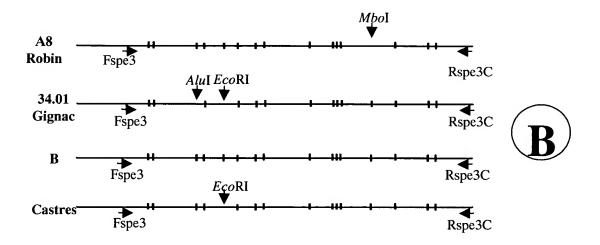


Figure 8





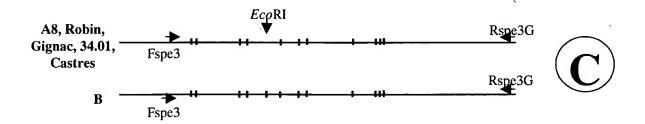


Figure 9

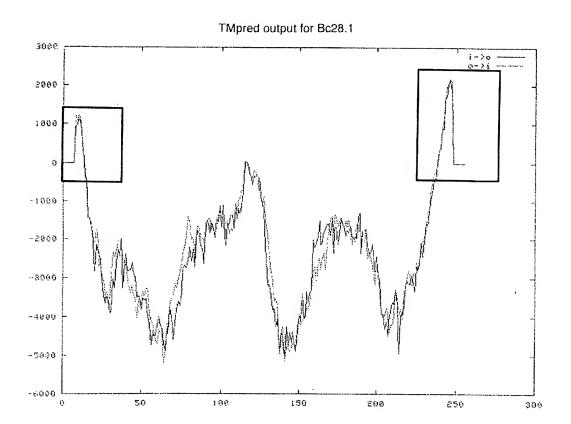
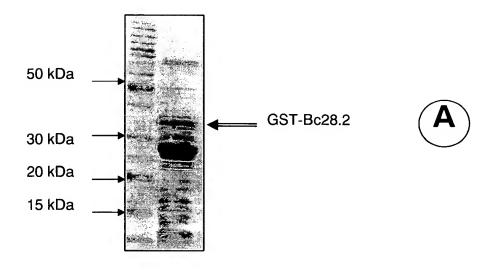


Figure 10



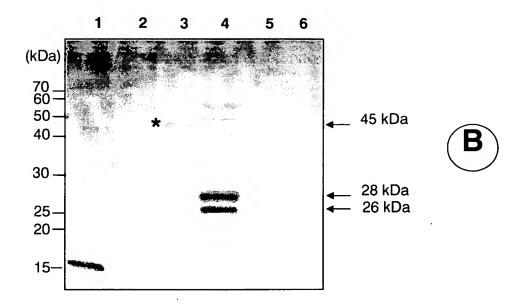
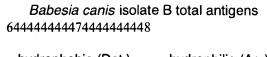


Figure 11



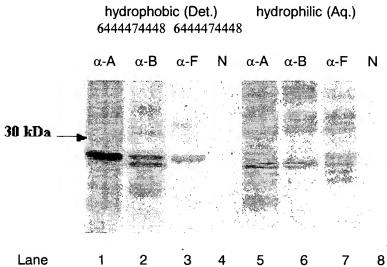


Figure 12

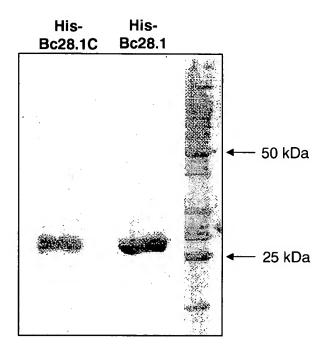
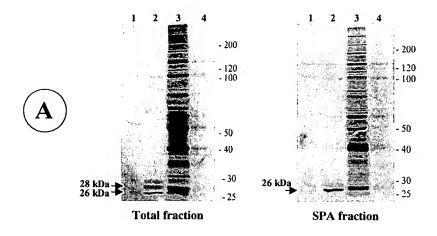
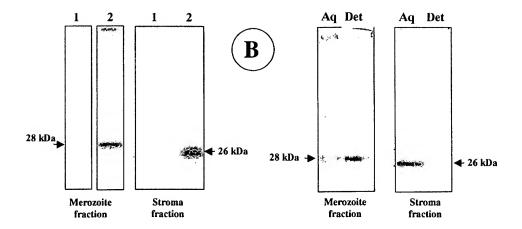


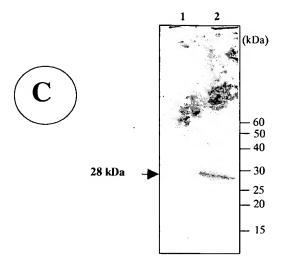
Figure 13





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Figure 13 (continued)



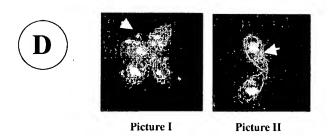
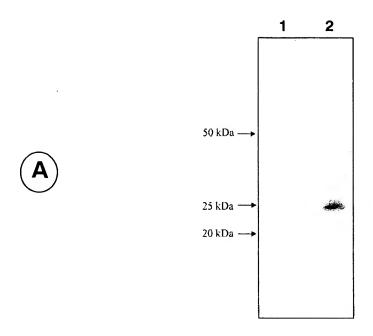


Figure 14



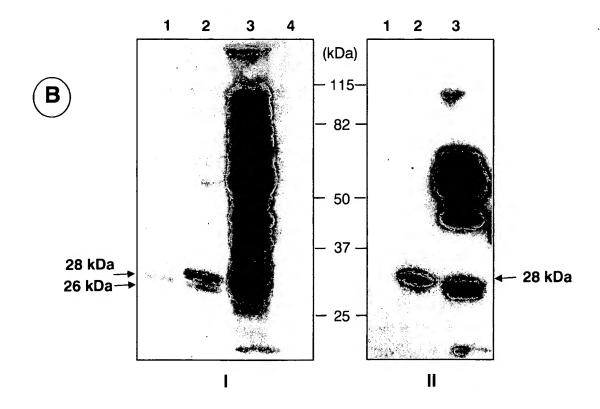


Figure 15

